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Respectfully submitted,



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PTO/SB/08a (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1
of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	March 22, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-20030205729 A1	11/06/2003	Basceri, et al.	
	A2	US-20030186495 A1	10/02/2003	Saaniia, et al.	
	A3	US-20030173586 A1	09/18/2003	Henderson	
	A4	US-20030168750 A1	09/11/2003	Basceri, et al.	
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	A8	US-20030134508 A1	07/17/2003	Raaijmakers, et al.	
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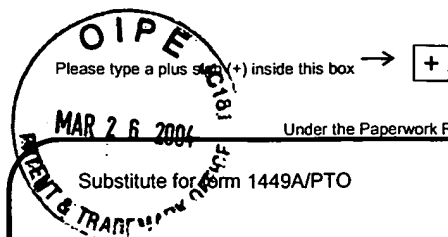
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1	EP 1 170 804 A2 ✓	01/09/2002			X
	B2	EP 1 167 569 A1 ✓	01/02/2002			
	B3	EP 1 146 141 A2 ✓	10/17/2001			
	B4	EP 0 442 490 A1 ✓	02/14/1991			
	B5	EP 0 429 270 A2 ✓	05/29/1991			

Examiner	Date Considered
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Substitute for Form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
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		Number-Kind Code ² (if known)			
	A19	US-20030042630 A1	03/06/2003	Babcoke, et al.	
	A20	US-20030032281 A1	02/13/2003	Werkhoven, et al.	
	A21	US-20030031807 A1	02/13/2003	Elers, et al.	
	A22	US-20030013320 A1	01/16/2003	Kim, et al.	
	A23	US-20030013300 A1	01/16/2003	Byun	
	A24	US-20020197402 A1	12/26/2002	Chiang, et al.	
	A25	US-20020187631 A1	12/12/2002	Kim, et al.	
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	A28	US-20020177282 A1	11/28/2002	Song	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B6	EP 0 344 352 A1 ✓	06/03/1988			
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	B8	DE 198 20 147A1 ✓	07/01/1999			
	B9	DE 196 27 017A1 ✓	01/09/1997			
	B10	CN 1 319 891 (Eng. Abstract Only) ✓	11/09/2001			X

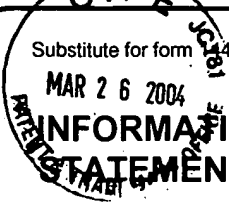
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Date Considered

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 Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/741,824
		Filing Date	DECEMBER 19, 2003
		First Named Inventor	LING CHEN, ET AL.
		Group Art Unit	UNKNOWN
		Examiner Name	UNKNOWN
		Attorney Docket Number	AMAT/7532/CPI/L/B/PJS
Sheet 3	of 30	Submission Date	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A37	US-20020144657 A1	10/10/2002	Chiang, et al.	
	A38	US-20020144655 A1	10/10/2002	Chiang, et al.	
	A39	US-20020135071 A1	09/26/2002	Kang, et al.	
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	A51	US-20020102834 A1	08/01/2002	Yang, et al.	
	A52	US-20020098627 A1	07/25/2002	Pomarede, et al.	
	A53	US-20020096775 A1	07/25/2002	Ning	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B11	TW 430970 (Eng. Abstract Only) ✓	04/21/2001			X
	B12	FR 2 692 597 A1 ✓	12/24/1993			
	B13	FR 2 626 110 A1 ✓	07/21/1989			
	B14	GB 2365215 ✓	02/13/2002			
	B15	GB 2 355 727A ✓	05/02/2001			

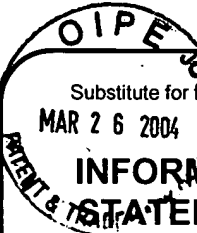
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 <p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use as many sheets as necessary)</p>				Application Number	10/741,824
				Filing Date	DECEMBER 19, 2003
				First Named Inventor	LING CHEN, ET AL.
				Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
				Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Sheet 4	of 30	Submission Date			

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A55	US-20020093781 A1	07/18/2002	Bachhofer, et al.	
	A56	US-20020093046 A1	07/18/2002	Moriya, et al.	
	A57	US-20020090829 A1	07/11/2002	Sandhu, et al.	
	A58	US-20020086507 A1	07/04/2002	Park, et al.	
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	A60	US-20020081844 A1	06/27/2002	Jeon, et al.	
	A61	US-20020081826 A1	06/27/2002	Rotondaro, et al.	
	A62	US-20020076837 A1	06/20/2002	Hujanen, et al.	
	A63	US-20020076508 A1	06/20/2002	Chiang, et al.	
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	A70	US-20020061612 A1	05/23/2002	Sandhu, et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B16	JP 64-090524 /	04/07/1989			
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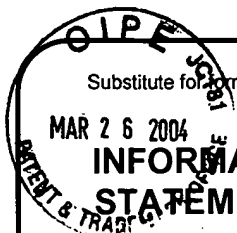
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				Examiner Name	UNKNOWN
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	A73	US-20020052097 A1	05/02/2002	Park	
	A74	US-20020048880 A1	04/25/2002	Lee	
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	B21	JP 64-037832 (Eng. Abstract Only) ✓	02/08/1989			X
	B22	JP 64-009897 (Eng. Abstract Only) ✓	01/13/1989			X
	B23	JP 64-009896 (Eng. Abstract Only) ✓	01/13/1989			X
	B24	JP 64-009895 (Eng. Abstract Only) ✓	01/13/1989			X
	B25	JP 63-266814 (Eng. Abstract Only) ✓	11/02/1988			X

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Sheet 6

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	A91	US-20020000598 A1	01/03/2002	Kang, et al.	
	A92	US-20010054769 A1	12/27/2001	Raaijmakers, et al.	
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	A99	US-20010029891 A1	10/18/2001	Oh, et al.	
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	A105	US-20010011526 A1	08/09/2001	Doering, et al.	
	A106	US-20010009695 A1	07/26/2001	Saanila, et al.	
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	A108	US-20010002280 A1	05/31/2001	Sneh	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B26	JP 63-252420 (Eng. Abstract Only) ✓	10/19/1988			X
	B27	JP 63-227007 (Eng. Abstract Only) ✓	09/21/1988			X
	B28	JP 63-222421 (Eng. Abstract Only) ✓	09/16/1988			X
	B29	JP 63-222420 (Eng. Abstract Only) ✓	09/16/1988			X
	B30	JP 63-090833 (Eng. Abstract Only) ✓	04/21/1988			X

Examiner

Date Considered

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/741,824		
		Filing Date	DECEMBER 19, 2003		
		First Named Inventor	LING CHEN, ET AL.		
		Group Art Unit	UNKNOWN		
		Examiner Name	UNKNOWN		
		Attorney Docket Number	AMAT/7532/CPI/L/B/PJS		
Sheet	7	of	30	Submission Date	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A109	US-20010000866 A1	05/10/2001	Sneh, et al.	
	A110	US-6,686,271 B2	02/03/2004	Raaijmakers, et al.	
	A111	US-6,660,126 B2	12/09/2003	Nguyen, et al.	
	A112	US-6,632,279 B1	10/14/2003	Ritala, et al.	
	A113	US-6,620,723 B1	09/16/2003	Byun, et al.	
	A114	US-6,607,976 B2	08/19/2003	Chen, et al.	
	A115	US-6,599,572 B2	07/29/2003	Saaniila, et al.	
	A116	US-6,585,823 B1	07/01/2003	Van Wijck	
	A117	US-6,548,424 B2	04/15/2003	Putkonen	
	A118	US-6,534,395 B2	03/18/2003	Werkhoven, et al.	
	A119	US-6,511,539 B1	01/28/2003	Raaijmakers, et al.	
	A120	US-6,482,740 B2	11/19/2002	Soininen, et al.	
	A121	US-6,482,733 B2	11/19/2002	Raaijmakers, et al.	
	A122	US-6,482,262 B1	11/19/2002	Elers, et al.	
	A123	US-6,478,872 B1	11/12/2002	Chae, et al.	
	A124	US-6,475,910 B1	11/05/2002	Sneh	
	A125	US-6,475,276 B1	11/05/2002	Elers, et al.	
	A126	US-6,468,924 B2	10/22/2002	Lee, et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B31	JP 63-085098 (Eng. Abstract Only) ✓	04/15/1988			X
	B32	JP 63-062313 (Eng. Abstract Only) ✓	03/18/1988			X
	B33	JP 62-232919 (Eng. Abstract Only) ✓	10/13/1987			X
	B34	JP 62-171999 (Eng. Abstract Only) ✓	07/28/1987			X
	B35	JP 62-167297 (Eng. Abstract Only) ✓	07/23/1987			X

Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 8

of 30

Application Number

10/741,824

Filing Date

DECEMBER 19, 2003

First Named Inventor

LING CHEN, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/7532/CPI/LB/PJS

Submission Date

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
	A127	US-6,458,701 B1	10/01/2002	Chae, et al.	
	A128	US-6,452,229 B1	09/17/2002	Krivokapic	
	A129	US-6,451,695 B2	09/17/2002	Sneh	
	A130	US-6,451,119 B2	09/17/2002	Sneh, et al.	
	A131	US-6,447,933 B1	09/10/2002	Wang, et al.	
	A132	US-6,428,859 B1	08/06/2002	Chiang, et al.	
	A133	US-6,426,555 B1	07/30/2002	Hsia	
	A134	US-6,423,619 B1	07/23/2002	Grant, et al.	
	A135	US-6,420,279 B1	07/16/2002	Ono, et al.	
	A136	US-6,420,189 B1	07/16/2002	Lopatin	
	A137	US-6,416,822 B1	07/09/2002	Chiang, et al.	
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	A139	US-6,399,491 B2	06/04/2002	Jeon, et al.	
	A140	US-6,395,650 B1	05/28/2002	Callegari, et al.	
	A141	US-6,391,803 B1	05/21/2002	Kim, et al.	
	A142	US-6,391,785 B1	05/21/2002	Satta, et al.	
	A143	US-6,380,084 B1	04/30/2002	Lim, et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B36	JP 62-141717 (Eng. Abstract Only) ✓	06/25/1987			X
	B37	JP 62-091495 (w/Eng. Abstract) ✓	04/25/1987			X
	B38	JP 62-069508 (Eng. Abstract Only) ✓	03/30/1987			X
	B39	JP 61-210623 (Eng. Abstract Only) ✓	09/18/1986			X
	B40	JP 61-035847 (Eng. Abstract Only) ✓	02/20/1986			X

Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 9

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
	A145	US-6,376,353 B1	04/23/2002	Zhou, et al.	
	A146	US-6,372,598 B2	04/16/2002	Kang, et al.	
	A147	US-6,369,430 B1	04/09/2002	Adetutu, et al.	
	A148	US-6,368,954 B1	04/09/2002	Lopatin, et al.	
	A149	US-6,358,829 B2	03/19/2002	Yoon, et al.	
	A150	US-6,355,561 B1	03/12/2002	Sandhu, et al.	
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	A155	US-6,333,260 B1	12/25/2001	Kwon, et al.	
	A156	US-6,316,098 B1	11/13/2001	Yitzchaik, et al.	
	A157	US-6,306,216 B1	10/23/2001	Kim, et al.	
	A158	US-6,305,314 B1	10/23/2001	Sneh, et al.	
	A159	US-6,299,294 B1	10/09/2001	Regan	
	A160	US-6,291,876 B1	09/18/2001	Stumborg, et al.	
	A161	US-6,291,283 B1	09/18/2001	Wilk	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B41	JP 60-065712A /	04/15/1985			
	B42	JP 58-100419 (Eng. Abstract Only) ✓	06/15/1983			X
	B43	JP 58-098917 (Eng. Abstract Only) ✓	06/13/1983			X
	B44	JP 2002-93804 (w/Eng. Abstract) ✓	03/29/2002			X
	B45	JP 2002-69641 (w/Eng. Abstract) ✓	03/08/2002			X

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Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 10

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/L/B/PJS
Submission Date	

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
	A163	US-6,284,646 B1	09/04/2001	Leem	
	A164	US-6,271,148 B1	08/07/2001	Kao et al.	
	A165	US-6,270,572 B1	08/07/2001	Kim, et al.	
	A166	US-6,258,713 B1	07/10/2001	Yu, et al.	
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	A168	US-6,238,734 B1	05/29/2001	Senzaki, et al.	
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	A174	US-6,200,893 B1	03/13/2001	Sneh	
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	A179	US-6,174,377 B1	01/16/2001	Doering, et al.	
	A180	US-6,169,028 B1	01/02/2001	Wang, et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B46	JP 2002-60944 (w/Eng. Abstract) ✓	02/28/2002			X
	B47	JP 2002-172767 (w/Eng. Abstract) ✓	06/18/2002			X
	B48	JP 2002-167672 (w/Eng. Abstract) ✓	06/11/2002			X
	B49	JP 2001-62244 ✓	03/13/2001			X
	B50	JP 2001-328900 (w/Eng. Abstract) ✓	11/27/2001			X

Examiner

Date Considered

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/741,824
				Filing Date	DECEMBER 19, 2003
				First Named Inventor	LING CHEN, ET AL.
				Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
				Attorney Docket Number	AMAT/7532/CPI/L/B/PJS
Sheet	11	of	30	Submission Date	

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		Number-Kind Code ² (if known)			
	A181	US-6,158,446	12/12/2000	Mohindra et al.	
	A182	US-6,144,060	11/07/2000	Park et al.	
	A183	US-6,143,659	11/07/2000	Leem	
	A184	US-6,140,238	10/31/2000	Kitch	
	A185	US-6,140,237	10/31/2000	Chan et al.	
	A186	US-6,139,700	10/31/2000	Kang et al.	
	A187	US-6,130,147	10/10/2000	Major et al.	
	A188	US-6,124,158	09/26/2000	Dautartas et al.	
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	A194	US-6,084,302	07/04/2000	Sandhu	
	A195	US-6,071,808	06/06/2000	Merchant et al.	
	A196	US-6,062,798	05/16/2000	Muka	
	A197	US-6,051,286	04/18/2000	Zhao et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B51	JP 2001-313296 (w/Eng. Abstract) ✓	11/09/2001			X
	B52	JP 2001-303251 (w/Eng. Abstract) ✓	10/31/2001			X
	B53	JP 2001-284042 (w/Eng. Abstract) ✓	10/12/2001			X
	B54	JP 2001-254181 (w/Eng. Abstract) ✓	09/18/2001			X
	B55	JP 2001-240972 (w/Eng. Abstract) ✓	09/04/2001			X

Examiner

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/741,824
				Filing Date	DECEMBER 19, 2003
				First Named Inventor	LING CHEN, ET AL.
				Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
				Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Sheet	12	of	30	Submission Date	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A199	US-6,042,652	03/28/2000	Hyun et al.	
	A200	US-6,037,664	03/14/2000	Zhao, et al.	
	A201	US-6,036,773	03/14/2000	Wang et al.	
	A202	US-6,025,627	02/15/2000	Forbes et al.	
	A203	US-6,020,243	02/01/2000	Wallace, et al.	
	A204	US-6,015,917	01/18/2000	Bhandari, et al.	
	A205	US-6,015,590	01/18/2000	Suntola et al.	
	A206	US-6,013,553	01/11/2000	Wallace, et al.	
	A207	US-6,001,669	12/14/1999	Gaines et al.	
	A208	US-5,972,430	10/26/1999	DiMeo, Jr. et al.	
	A209	US-5,947,710	09/07/1999	Cooper, et al.	
	A210	US-5,942,040	08/24/1999	Kim et al.	
	A211	US-5,928,389	07/27/1999	Jevtic	
	A212	US-5,925,574	07/20/1999	Aoki et al.	
	A213	US-5,923,985	07/13/1999	Aoki et al.	
	A214	US-5,923,056	07/13/1999	Lee et al.	
	A215	US-5,916,365	06/29/1999	Sherman	
	A216	US-5,904,565	05/18/1999	Nguyen, et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B56	JP 2001-220294 (Eng. Abstract Only)	08/14/2001			X
	B57	JP 2001-220287 (Eng. Abstract Only)	08/14/2001			X
	B58	JP 2001-217206 (Eng. Abstract Only)	08/10/2001			X
	B59	JP 2001-189312 (Eng. Abstract Only)	07/10/2001			X
	B60	JP 2001-172767 (Eng. Abstract Only)	06/26/2001			X

Examiner

Date Considered

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/741,824
				Filing Date	DECEMBER 19, 2003
				First Named Inventor	LING CHEN, ET AL.
				Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
				Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Sheet	13	of	30	Submission Date	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A217	US-5,882,413	03/16/1999	Beaulieu et al.	
	A218	US-5,882,165	03/16/1999	Maydan et al.	
	A219	US-5,879,459	03/09/1999	Gadgil et al.	
	A220	US-5,866,795	02/02/1999	Wang et al.	
	A221	US-5,866,213	02/02/1999	Foster et al.	
	A222	US-5,858,102	01/12/1999	Tsai	
	A223	US-5,856,219	01/05/1999	Naito et al.	
	A224	US-5,855,680	01/05/1999	Soininen et al.	
	A225	US-5,855,675	01/05/1999	Doering et al.	
	A226	US-5,851,849	12/22/1998	Comizzoli et al.	
	A227	US-5,835,677	11/10/1998	Li et al.	
	A228	US-5,830,270	11/03/1998	McKee et al.	
	A229	US-5,807,792	09/15/1998	Ilg et al.	
	A230	US-5,804,488	09/08/1998	Shih, et al.	
	A231	US-5,801,634	09/01/1998	Young et al.	
	A232	US-5,796,116	08/18/1998	Nakata et al.	
	A233	US-5,788,799	08/04/1998	Steger, et al.	
	A234	US-5,788,447	08/04/1998	Yonemitsu et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B61	JP 2001-152339 (Eng. Abstract Only) ✓	06/05/2001			X
	B62	JP 2001-111000 ✓	04/20/2001			X
	B63	JP 2001-020075 (Eng. Abstract Only) ✓	01/23/2001			X
	B64	JP 2000-353666 (Eng. Abstract Only) ✓	12/19/2000			X
	B65	JP 2000-340883 (Eng. Abstract Only) ✓	12/08/2000			X

Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 14

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A235	US-5,749,974	05/12/1998	Habuka et al.	
	A236	US-5,747,113	05/05/1998	Tsai	
	A237	US-5,730,802	03/24/1998	Ishizumi et al.	
	A238	US-5,730,801	03/24/1998	Tepman et al.	
	A239	US-5,711,811	01/27/1998	Suntola et al.	
	A240	US-5,707,880	01/13/1998	Aftergut et al.	
	A241	US-5,705,224	01/06/1998	Murota et al.	
	A242	US-5,695,564	12/09/1997	Imahashi	
	A243	US-5,693,139	12/02/1997	Nishizawa et al.	
	A244	US-5,674,786	10/07/1997	Turner et al.	
	A245	US-5,667,592	09/16/1997	Boitnott et al.	
	A246	US-5,644,128	07/01/1997	Wollnik et al.	
	A247	US-5,641,984	06/24/1997	Aftergut et al.	
	A248	US-5,637,530	06/10/1997	Gaines et al.	
	A249	US-5,616,181	04/01/1997	Yamamoto et al.	
	A250	US-5,609,689	03/11/1997	Kato et al.	
	A251	US-5,601,651	02/11/1997	Watabe	
	A252	US-5,580,380	12/03/1996	Liu, et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B66	JP 2000-319772 (Eng. Abstract Only)	11/21/2000			X
	B67	JP 2000-218445 (Eng. Abstract Only)	08/08/2000			X
	B68	JP 2000-138094 (Eng. Abstract Only)	05/16/2000			X
	B69	JP 2000-087029 (Eng. Abstract Only)	03/28/2000			X
	B70	JP 2000-068072 (Eng. Abstract Only)	03/03/2000			X

Examiner

Date Considered

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/741,824
				Filing Date	DECEMBER 19, 2003
				First Named Inventor	LING CHEN, ET AL.
				Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
				Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Sheet	15	of	30	Submission Date	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A253	US-5,540,783	07/30/1996	Eres et al.	
	A254	US-5,532,511	07/02/1996	Nishizawa et al.	
	A255	US-5,527,733	06/18/1996	Nishizawa et al.	
	A256	US-5,526,244	06/11/1996	Bishop	
	A257	US-5,521,126	05/28/1996	Okamura et al.	
	A258	US-5,503,875	04/02/1996	Imai et al.	
	A259	US-5,484,664	01/16/1996	Kitahara et al.	
	A260	US-5,483,919	01/16/1996	Yokoyama et al.	
	A261	US-5,480,818	01/02/1996	Matsumoto et al.	
	A262	US-5,469,806	11/28/1995	Mochizuki et al.	
	A263	US-5,458,084	10/17/1995	Thorne et al.	
	A264	US-5,455,072	10/03/1995	Benson et al.	
	A265	US-5,443,647	08/22/1995	Aucoin et al.	
	A266	US-5,443,033	08/22/1995	Nishizawa et al.	
	A267	US-5,441,703	08/15/1995	Jurgensen	
	A268	US-5,439,876	08/08/1995	Graf et al.	
	A269	US-5,438,952	08/08/1995	Otsuka	
	A270	US-5,395,791	03/07/1995	Cheng et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B71	JP 2000-058777 (Eng. Abstract Only) ✓	02/25/2000			X
	B72	JP 2000-031387 (Eng. Abstract Only) ✓	01/28/2000			X
	B73	JP 11-269652 (Eng. Abstract Only) ✓	10/05/1999			X
	B74	JP 10-308283 ✓	11/17/1998			X
	B75	JP 10-190128 (Eng. Abstract Only) ✓	07/21/1998			X

Examiner	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 16

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Application Number

10/741,824

Filing Date

DECEMBER 19, 2003

First Named Inventor

LING CHEN, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/7532/CPI/L/B/PJS

Submission Date

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	A271	US-5,374,570	12/20/1994	Nasu et al.	
	A272	US-5,348,911	09/20/1994	Jurgensen et al.	
	A273	US-5,338,389	08/16/1994	Nishizawa et al.	
	A274	US-5,336,324	08/09/1994	Stall et al.	
	A275	US-5,330,610	07/19/1994	Eres et al.	
	A276	US-5,316,793	05/31/1994	Wallace et al.	
	A277	US-5,316,615	05/31/1994	Copel	
	A278	US-5,311,055	05/10/1994	Goodman et al.	
	A279	US-5,306,666	04/26/1994	Izumi	
	A280	US-5,300,186	04/05/1994	Kitahara et al.	
	A281	US-5,296,403	03/22/1994	Nishizawa et al.	
	A282	US-5,294,286	03/15/1994	Nishizawa et al.	
	A283	US-5,290,748	03/01/1994	Knuutila et al.	
	A284	US-5,290,609	03/01/1994	Horiike, et al.	
	A285	US-5,286,296	02/15/1994	Sato et al.	
	A286	US-5,281,274	01/25/1994	Yoder	
	A287	US-5,278,435	01/11/1994	Van Hove et al.	
	A288	US-5,270,247	12/14/1993	Sakuma et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B76	JP 10-188840 (Eng. Abstract Only) ✓	07/21/1998			X
	B77	JP 09-293681 (Eng. Abstract Only) ✓	11/11/1997			X
	B78	JP 09-260786 (Eng. Abstract Only) ✓	10/03/1997			X
	B79	JP 08-264530 ✓	10/11/1996			
	B80	JP 08-245291 (Eng. Abstract Only) ✓	09/24/1996			X

Examiner

Date Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 17

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
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		Number-Kind Code ² (if known)			
	A289	US-5,259,881	11/09/1993	Edwards, et al.	
	A290	US-5,256,244	10/26/1993	Ackerman	
	A291	US-5,254,207	10/19/1993	Nishizawa et al.	
	A292	US-5,250,148	10/05/1993	Nishizawa et al.	
	A293	US-5,246,536	09/21/1993	Nishizawa et al.	
	A294	US-5,234,561	08/10/1993	Randhawa et al.	
	A295	US-5,225,366	07/06/1993	Yoder	
	A296	US-5,205,077	04/27/1993	Wittstock	
	A297	US-5,186,718	02/16/1993	Tepman et al.	
	A298	US-5,173,474	12/22/1992	Connell, et al.	
	A299	US-5,166,092	11/24/1992	Mochizuki et al.	
	A300	US-5,130,269	07/14/1992	Kitahara et al.	
	A301	US-5,091,320	02/25/1992	Aspnes et al.	
	A302	US-5,085,885	02/04/1992	Foley et al.	
	A303	US-5,082,798	01/21/1992	Arimoto	
	A304	US-5,028,565	07/02/1991	Chang, et al.	
	A305	US-5,013,683	05/07/1991	Petroff et al.	
	A306	US-5,000,113	03/19/1991	Wang et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B81	JP 08-181076 (Eng. Abstract Only) ✓	07/12/1996			X
	B82	JP 07-086269 (Eng. Abstract Only) ✓	03/13/1995			X
	B83	JP 07-070752 (Eng. Abstract Only) ✓	03/14/1995			X
	B84	JP 06-291048 ✓	10/18/1994			
	B85	JP 06-252057 (Eng. Abstract Only) ✓	09/09/1994			X

Examiner

Date Considered

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of 30

Application Number

10/741,824

Filing Date

DECEMBER 19, 2003

First Named Inventor

LING CHEN, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/7532/CPI/LB/PJS

Submission Date

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A289	US-5,259,881	11/09/1993	Edwards, et al.	
	A290	US-5,256,244	10/26/1993	Ackerman	
	A291	US-5,254,207	10/19/1993	Nishizawa et al.	
	A292	US-5,250,148	10/05/1993	Nishizawa et al.	
	A293	US-5,246,536	09/21/1993	Nishizawa et al.	
	A294	US-5,234,561	08/10/1993	Randhawa et al.	
	A295	US-5,225,366	07/06/1993	Yoder	
	A296	US-5,205,077	04/27/1993	Wittstock	
	A297	US-5,186,718	02/16/1993	Tepman et al.	
	A298	US-5,173,474	12/22/1992	Connell, et al.	
	A299	US-5,166,092	11/24/1992	Mochizuki et al.	
	A300	US-5,130,269	07/14/1992	Kitahara et al.	
	A301	US-5,091,320	02/25/1992	Aspnes et al.	
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	A305	US-5,013,683	05/07/1991	Petroff et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B86	JP 06-230421 (Eng. Abstract Only) ✓	08/19/1994			X
	B87	JP 06-224138 (Eng. Abstract Only) ✓	08/12/1994			X
	B88	JP 06-222388 (Eng. Abstract Only) ✓	08/12/1994			X
	B89	JP 06-196809 (Eng. Abstract Only) ✓	07/15/1994			X
	B90	JP 07-300649 (w/Eng. Abstract) ✓	11/14/1995			X

Examiner

Date Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 20

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/L/B/PJS
Submission Date	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B91	JP 06-177381 (Eng. Abstract Only) ✓	06/24/1994			X
	B92	JP 06-132236 (Eng. Abstract Only) ✓	05/13/1994			X
	B93	JP 06-045606 (Eng. Abstract Only) ✓	02/18/1994			X
	B94	JP 05-343685 (Eng. Abstract Only) ✓	12/24/1993			X
	B95	JP 05-343327 (Eng. Abstract Only) ✓	12/24/1993			X
	B96	JP 05-304334 (Eng. Abstract Only) ✓	11/16/1993			X
	B97	JP 05-291152 (Eng. Abstract Only) ✓	11/05/1993			X
	B98	JP 05-283336 (Eng. Abstract Only) ✓	10/29/1993			X
	B99	JP 05-270997 (Eng. Abstract Only) ✓	10/19/1993			X
	B100	JP 05-251339 (Eng. Abstract Only) ✓	09/28/1993			X
	B101	JP 05-235047 (Eng. Abstract Only) ✓	09/10/1993			X
	B102	JP 05-234899 (Eng. Abstract Only) ✓	09/10/1993			X
	B103	JP 05-206036 (Eng. Abstract Only) ✓	08/13/1993			X
	B104	JP 05-186295 (Eng. Abstract Only) ✓	07/27/1993			X
	B105	JP 05-182906 (Eng. Abstract Only) ✓	07/23/1993			X
	B106	JP 05-175145 (Eng. Abstract Only) ✓	07/13/1993			X
	B107	JP 05-175143 (Eng. Abstract Only) ✓	07/13/1993			X
	B108	JP 05-160152 (Eng. Abstract Only) ✓	06/25/1993			X
	B109	JP 05-102189 (Eng. Abstract Only) ✓	04/23/1993			X
	B110	JP 05-074724 (Eng. Abstract Only) ✓	03/26/1993			X
	B110	JP 05-074717 (Eng. Abstract Only) ✓	03/26/1993			X
	B112	JP 05-047668 (Eng. Abstract Only) ✓	02/26/1993			X
	B113	JP 05-047666 (Eng. Abstract Only) ✓	02/26/1993			X
	B114	JP 05-047665 (Eng. Abstract Only) ✓	02/26/1993			X
	B115	JP 05-029228 (Eng. Abstract Only) ✓	02/05/1993			X
	B116	JP 04-328874 (Eng. Abstract Only) ✓	11/17/1992			X
	B117	JP 04-325500 (Eng. Abstract Only) ✓	11/13/1992			X
	B118	JP 04-291916 (Eng. Abstract Only) ✓	10/16/1992			X

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Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 21

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/L/B/PJS
Submission Date	

FOREIGN PATENT DOCUMENTS

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		Country Code ² , Number ³ , Kind Code ⁵ (if known)				
	B119	JP 04-285167 (Eng. Abstract Only) ✓	10/09/1992			X
	B120	JP 04-273120 (Eng. Abstract Only) ✓	09/29/1992			X
	B122	JP 04-260696 (Eng. Abstract Only) ✓	09/16/1992			X
	B123	JP 04-212411 (Eng. Abstract Only) ✓	08/04/1992			X
	B124	JP 04-186824 (Eng. Abstract Only) ✓	07/03/1992			X
	B125	JP 04-175299 (Eng. Abstract Only) ✓	06/23/1992			X
	B126	JP 04-162418 (Eng. Abstract Only) ✓	06/05/1992			X
	B127	JP 04-132681 (Eng. Abstract Only) ✓	05/06/1992			X
	B128	JP 04-132214 (Eng. Abstract Only) ✓	05/06/1992			X
	B129	JP 04-111418 (Eng. Abstract Only) ✓	04/13/1992			X
	B130	JP 04-100292 (Eng. Abstract Only) ✓	04/02/1992			X
	B131	JP 04-031396 (w/Eng. Abstract) ✓	02/03/1992			X
	B132	JP 04-031391 (Eng. Abstract Only) ✓	02/03/1992			X
	B133	JP 04-151822 (Eng. Abstract Only) ✓	05/25/1992			X
	B134	JP 03-286531 ✓	12/17/1991			
	B135	JP 03-286522 (Eng. Abstract Only) ✓	12/17/1991			X
	B136	JP 03-234025 (Eng. Abstract Only) ✓	10/18/1991			X
	B137	JP 03-208885 (Eng. Abstract Only) ✓	09/12/1991			X
	B138	JP 03-185716 (Eng. Abstract Only) ✓	08/13/1991			X
	B139	JP 03-070124 (Eng. Abstract Only) ✓	03/26/1991			X
	B140	JP 03-048421 ✓	03/01/1991			
	B141	JP 03-044967 (Eng. Abstract Only) ✓	02/26/1991			X
	B142	JP 03-023299 (Eng. Abstract Only) ✓	01/31/1991			X
	B143	JP 03-023294 (Eng. Abstract Only) ✓	01/31/1991			X
	B144	JP 03-022569 (Eng. Abstract Only) ✓	01/30/1991			X
	B145	JP 03-019211 (Eng. Abstract Only) ✓	01/28/1991			X
	B146	JP 02-304916 (Eng. Abstract Only) ✓	12/18/1990			X
	B147	JP 02-283084 (Eng. Abstract Only) ✓	11/20/1990			X

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Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 22

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/L/B/PJS
Submission Date	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ² -Number ³ -Kind Code ⁵ (if known)				
	B148	JP 02-264491 (Eng. Abstract Only)	10/29/1990			X
	B149	JP 02-246161 (Eng. Abstract Only)	10/01/1990			X
	B150	JP 02-230722 (Eng. Abstract Only)	09/13/1990			X
	B151	JP 02-230690 (Eng. Abstract Only)	09/13/1990			X
	B152	JP 02-203517 (Eng. Abstract Only)	08/13/1990			X
	B153	JP 02-196092 (Eng. Abstract Only)	08/02/1990			X
	B154	JP 02-172895 (Eng. Abstract Only)	07/04/1990			X
	B155	JP 02-162717 (Eng. Abstract Only)	06/22/1990			X
	B156	JP 02-129913 (Eng. Abstract Only)	05/18/1990			X
	B157	JP 02-106822 (Eng. Abstract Only)	04/18/1990			X
	B158	JP 02-074587 (Eng. Abstract Only)	03/14/1990			X
	B159	JP 02-074029 (Eng. Abstract Only)	03/14/1990			X
	B160	JP 02-063115 (Eng. Abstract Only)	03/02/1990			X
	B161	JP 02-017634 (Eng. Abstract Only)	01/22/1990			X
	B162	JP 02-014513 (Eng. Abstract Only)	01/18/1990			X
	B163	JP 02-012814 (Eng. Abstract Only)	01/17/1990			X
	B164	JP 01-313927 (Eng. Abstract Only)	12/19/1989			X
	B165	JP 01-305894 (Eng. Abstract Only)	12/11/1989			X
	B166	JP 01-303770 (Eng. Abstract Only)	12/07/1989			X
	B167	JP 01-296673 (Eng. Abstract Only)	11/30/1989			X
	B168	JP 01-290222 (Eng. Abstract Only)	11/22/1989			X
	B169	JP 01-290221 (Eng. Abstract Only)	11/22/1989			X
	B170	JP 01-272108 (Eng. Abstract Only)	10/31/1989			X
	B171	JP 01-270593 (Eng. Abstract Only)	10/27/1989			X
	B172	JP 01-264218 (Eng. Abstract Only)	10/20/1989			X
	B173	JP 01-245512 (Eng. Abstract Only)	09/29/1989			X
	B174	JP 01-236657 (Eng. Abstract Only)	09/21/1989			X
	B175	JP 01-154511 (Eng. Abstract Only)	06/16/1989			X

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Date Considered

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**INFORMATION DISCLOSURE
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Sheet 23

of 30

Application Number

10/741,824

Filing Date

DECEMBER 19, 2003

First Named Inventor

LING CHEN, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/7532/CPI/LB/PJS

Submission Date

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B176	JP 01-143233 (Eng. Abstract Only),	06/05/1989			X
	B177	JP 01-143221 (w/Eng. Abstract) ✓	06/05/1989			X
	B178	JP 01-117017 (w/Eng. Abstract) ✓	05/09/1989			X
	B179	JP 01-103996 (Eng. Abstract Only),	04/21/1989			X
	B180	JP 01-103982 (Eng. Abstract Only)*	04/21/1989			X
	B181	WO 99/13504 ✓	03/18/1999			
	B182	WO 99/41423 ✓	08/19/1999			
	B183	WO 99/29924 ✓	06/17/1999			
	B184	WO 98/51838 ✓	11/19/1998			
	B185	WO 98/06889 ✓	02/19/1998			
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	B188	WO 93/02111 ✓	02/04/1993			
	B189	WO 91/10510 ✓	07/25/1991			
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	B193	WO 02/09167 A2 ✓	01/31/2002			
	B194	WO 01/82390 A1 ✓	11/01/2001			
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	B196	WO 01/40541 A1 ✓	06/07/2001			
	B197	WO 01/36702 A1 ✓	05/25/2001			
	B198	WO 01/29893 A1 ✓	04/26/2001			
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	B201	WO 01/17692 A1 ✓	03/15/2001			
	B202	WO 01/15220 ✓	03/01/2001			
	B203	WO 01/29280 A1 ✓	04/26/2001			

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/741,824		
		Filing Date	DECEMBER 19, 2003		
		First Named Inventor	LING CHEN, ET AL.		
		Group Art Unit	UNKNOWN		
		Examiner Name	UNKNOWN		
		Attorney Docket Number	AMAT/7532/CPI/L/B/PJS		
Sheet	24	of	30	Submission Date	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B204	WO 01/27347 A1 /	04/19/2001			
	B205	WO 01/27346 A1 /	04/19/2001			
	B206	WO 01/15220 A1 /	03/01/2001			
	B207	WO 00/70674 /	11/23/2000			
	B208	WO 00/11721 /	03/02/2000			
	B209	WO 00/79576 A1 /	12/28/2000			
	B210	WO 00/79019 A1 /	12/28/2000			
	B211	WO 00/63957 A1 /	10/26/2000			
	B212	WO 00/54320 A1 /	09/14/2000			
	B213	WO 00/16377 A2 /	03/23/2000			
	B214	WO 00/15881 A2 /	03/23/2000			
	B215	WO 00/15865 A1 /	03/23/2000			
	B216	WO 02/45871 A1 /	06/13/2002			
	B217	WO 02/45167 A2 /	06/06/2002			
	B218	WO 02/01628 A2 /	01/03/2002			
	B219	WO 02/67319 A2 /	08/29/2002			
	B220	WO 98/51838 A1 /	11/19/1998			
	B221	JP 2000-178735 (w/Eng. Abstract)	06/27/2000			X
	B222	WO 99/01595 A1 /	01/14/1999			
	B223	WO 96/17107 A1 /	06/06/1996			
	B224	WO 02/08485 A2 /	01/31/2002			
	B225	WO 99/65064 A1 /	12/16/1999			

Examiner

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<div>Substitute for form 1449B/PTO</div> <div> <div>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</div> <div>(Use as many sheets as necessary)</div> </div>				Application Number	10/741,824
				Filing Date	DECEMBER 19, 2003
				First Named Inventor	LING CHEN, ET AL.
				Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
				Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Sheet	25	of	30	Submission Date	

NON PATENT LITERATURE DOCUMENTS			
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	C1	OHBA, ET AL., "Thermal Decomposition of Methylhydrazine and Deposition Properties of CVD TiN Thin Films", Conference Proceedings, Advanced Metallization for ULSI Applications in 1993 (1994), pp. 143-149.	
	C2	SCHEPER, ET AL., "Low-temperature deposition of titanium nitride films from dialkylhydrazine-based precursors", Materials Science in Semiconductor Processing 2 (1999), pp. 149-157.	
	C3	SUZUKI, ET AL., "A 0.2-μm contact filing by 450°C-hydrazine-reduced TiN film with low resistivity", IEDM 92-979, pp. 11.8.1 – 11.8.3.	
	C4	SUZUKI, ET AL., "LPCVD-TiN Using Hydrazine and TiCl ₄ ", VMIC Conference (June 8-9, 1993), pp. 418-423.	
	C5	IBM Tech. Disc. Bull. "Knowledge-Based Dynamic Scheduler in Distributed Computer Control, (June 1990), pp. 80-84.	
	C6	IBM Tech. Disc. Bull. "Multiprocessor and Multitasking Architecture for Tool Control of the Advanced via Inspection Tools" (May 1992), pp. 190-191.	
	C7	MCGEACHIN, S., "Synthesis and properties of some β-diketimines derived from acetylacetone, and their metal complexes", Canadian J. of Chemistry, Vol. 46 (1968), pp.1903-1912.	
	C8	SOLANKI, ET AL., "Atomic Layer deposition of Copper Seed Layers", Electrochemical and Solid State Letters, 3(10) (2000), pp. 479-480.	
	C9	YANG, ET AL. "Atomic Layer Deposition of Tungsten Film from WF ₆ /B ₂ H ₆ :Nucleation Layer for Advanced Semiconductor Device," Conference Proceedings ULSI XVII (2002) Materials Research Society.	
	C10	KUKLI, ET AL. "Tailoring the Dielectric Properties of HfO ₂ -Ta ₂ O ₅ Nanolaminates," Applied Physics Letters, Vol. 68, No. 26, June 24, 1996; pp. 3737-9.	
	C11	KUKLI, ET AL. "Atomic Layer Epitaxy Growth of Tantalum Oxide Thin Films from Ta(OC ₂ H ₅) ₅ and H ₂ O," Journal of the Electrochemical Society, Vo. 142, No. 5, May 1995: pp. 1670-5.	
	C12	KUKLI, ET AL. "Properties of Ta ₂ O ₅ -Based Dielectric Nanolaminates Deposited by Atomic Layer Epitaxy," Journal of Electrochemical Society, Vol. 144, No. 1, Jan. 1997; pp. 300-6.	

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	C13	KUKLI, ET AL. "In Situ Study of Atomic Layer Epitaxy Growth on Tantalum Oxide Thin Films form Ta(OC ₂ H ₅) ₅ and H ₂ O," Applied Surface Science, Vol. 112, March 1997, pp. 236-42.	
	C14	KUKLI, ET AL. "Properties of {Nb _{1-x} Ta _x } ₂ O ₅ Solid Solutions and {Nb _{1-x} Ta _x } ₂ O ₅ ZrO ₂ Nanolaminates Grown by Atomic Layer Epitaxy," 1997; p. 785-93.	
	C15	EISENBRAUM, ET AL. "Atomic Layer Deposition (ALD) of Tantalum-based Materials for Zero Thickness Copper Barrier Applications," Proceedings of the IEEE 2001 International Interconnect Technology Conference 2001.	
	C16	CLARK-PHELPS, ET AL. "Engineered Tantalum Aluminate and Hafnium Aluminate ALD Films for Ultrathin Dielectric Films with Improved Electrical and Thermal Properties," Mat. Res. Soc. Symp. Proc. Vol. 670 (2001).	
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	C18	BADER, ET AL., "Integrated Processing Equipment", Solid State Technology, Cowan Pub., Vol. 33, No. 5 (May 1, 1990), pp. 149-154.	
	C19	CHOI, ET AL., "The effect of annealing on resistivity of low pressure chemical vapor deposited titanium diboride", J. Appl. Phys. 69(11) (June 1, 1991), pp. 7853-7861	
	C20	CHOI, ET AL., "Stability of TiB ₂ as a Diffusion Barrier on Silicon", J. Electrochem. Soc. 138(10) (October 1991), pp. 3062-3067.	
	C21	DAN MAYDAN, "Cluster Tools for Fabrication of Advanced Devices" Jap. J. of Applied Physics, Extended Abstracts, 22 nd Conference Solid State Devices and Materials (1990), pp. 849 - 852.	
	C22	KATHERINE DERBYSHIRE "Applications of Integrated Processing", Solid State Technology, US, Cowan Pub., Vol 37, No. 12 (December 1, 1994), pp. 45-47	
	C23	KITIGAWA, ET AL., "Hydrogen-mediated low temperature epitaxy of Si in plasma-enhanced chemical vapor deposition", Applied Surface Science (2000), pp. 30-34	
	C24	J.W. KLAUS, ET AL., "Atomically controlled growth of tungsten and tungsten nitride using sequential surface reactions", Applied Surface Science 162-163, 2000, pp. 479-491.	

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	C25	M. RITALA, ET AL., "Perfectly Conformal TiN and Al ₂ O ₃ Films Deposited by Atomic Layer Deposition", Chemical Vapor Deposition, ISSN 0948-1907, CVDEFX, Vol. 5, January 1999, No.1, pgs 7-9.	
	C26	L. NIINISTO, ET AL., "Synthesis of oxide thin films and overlayers by atomic layer epitaxy for advanced applications", Materials Science and Engineering B41, 1996, pgs 23-29.	
	C27	M. BALOG, ET AL., "Chemical Vapor Deposition and Characterization of HfO ₂ Films From Organo-Hafnium Compounds", Thin Solid Films, 41, 1977, pgs 247-259.	
	C28	Y. OHSHITA, ET AL., "HfO ₂ growth by low-pressure chemical vapor deposition using the Hf(N(C ₂ H ₅) ₂) ₄ /O ₂ gas system", Journal of Crystal Growth 233, 2001, pgs 292-297.	
	C29	LEE, ET AL., "Pulsed nucleation for ultra-high aspect ratio tungsten plugfill", Novellus Systems, Inc. (2001), pp. 1-2.	
	C30	MIKKO RITALA, ET AL. "Development of Crystallinity and Morphology in Hafnium Dioxide Thin Films Grown by Atomic Layer Epitaxy", 1994 Thin Solid Films, 250 Pages 72-80.	
	C31	MIKKO RITALA, "Thesis. Ann. Acad. Sci. Fenn. Ser. AII" Chemica, 257, May 1994 Pages 1-48.	
	C32	PCT International Search Report for PCT/US02/28884, September 23, 2003 (AMAT/5350.PC).	
	C33	HULTMAN, ET AL., "Review of the thermal and mechanical stability of TiN-based thin films", Zeitschrift Fur Metallkunde, 90(10) (Oct. 1999), pp. 803-813.	
	C34	KLAUS, ET AL., "Atomic Layer Deposition of SiO ₂ Using Catalyzed and Uncatalyzed Self-Limiting Surface Reactions", Surface Review & Letters, 6(3&4) (1999), pp. 435-448.	
	C35	YAMAGUCHI, ET AL., "Atomic-layer chemical-vapor-deposition of silicon dioxide films with extremely low hydrogen content", Appl. Surf. Sci., Vol. 130-132 (1998) , pp. 202-207.	
	C36	GEORGE, ET AL., "Surface Chemistry for Atomic Layer Growth", J. Phys. Chem., Vol. 100 (1996), pp. 13121-131.	

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	C37	GEORGE, ET AL., "Atomic layer controlled deposition of SiO ₂ and Al ₂ O ₃ using ABAB...binary reaction sequence chemistry", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 460-467.	
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	C39	NIINISTO, ET AL., "Synthesis of oxide thin films and overlayers by atomic layer epitaxy for advanced applications", <i>Mat. Sci. & Eng.</i> , Vol. B41 (1996), pp. 23-29.	
	C40	MIN, ET AL., "Atomic layer deposition of TiN thin films by sequential introduction of Ti precursor and NH/sub3", <i>Symp.: Advanced Interconnects and Contact Materials and Processes for Future Integrated Circuits</i> (Apr. 13-16, 1998), pp. 337-342.	
	C41	MIN, ET AL., "Metal-Organic Atomic-Layer Deposition of Titanium-Silicon-Nitride Films", <i>Applied Physics Letters</i> , American Inst. Of Physics, Vol 75(11) (Sept. 13, 1999).	
	C42	MARTENSSON, ET AL., "Atomic Layer Epitaxy of Copper on Tantalum", <i>Chemical Vapor Deposition</i> , 3(1) (Feb. 1, 1997), pp. 45-50.	
	C43	RITALA, ET AL. "Atomic Layer Epitaxy Growth of TiN Thin Films", <i>J. Electrochem. Soc.</i> , 142(8) (Aug. 1995), pp. 2731-737.	
	C44	ELERS, ET AL., "NbC15 As A Precursor In Atomic Layer Epitaxy", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 468-474.	
	C45	LEE, "The Preparation of Titanium-Based Thin Film by CVD Using Titanium Chlorides as precursors", <i>Chemical Vapor Deposition</i> , 5(2) (Mar. 1999), pp. 69-73.	
	C46	MARTENSSON, ET AL., "Atomic Layer Epitaxy of Copper, Growth & Selectivity in the Cu (II)-2,2,6,6-Tetramethyl-3, 5-Heptanedion ATE/H ₂ Process", <i>J. Electrochem. Soc.</i> , 145(8) (Aug. 1998), pp. 2926-2931.	
	C47	MIN, ET AL., "Chemical Vapor Deposition of Ti-Si-N Films with Alternating Source Supply", <i>Mat., Res. Soc. Symp. Proc.</i> , Vol. 564 (Apr. 5, 1999), pp. 207-210.	
	C48	BEDAIR, "Atomic Layer Epitaxy Deposition Processes", <i>J. Vac. Sci. Techol.</i> 12(1) (Jan/Feb 1994).	

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				First Named Inventor	LING CHEN, ET AL.
				Group Art Unit	UNKNOWN
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	C49	YAMAGA, ET AL., "Atomic Layer Epitaxy Of ZnS By A New Gas Supplying System In A Low-Pressure Metalorganic Vapor Phase Epitaxy", <i>J. of Crystal Growth</i> 117 (1992), pp. 152-155.	
	C50	United States Patent Application 10/762,764 filed January 22, 2004 (AMAT/4714.C1).	
	C51	United States Patent Application 10/418,728 filed April 18, 2003 (AMAT/4714.P2).	
	C53	United States Patent Application 09/678,266 filed October 3, 2000 (AMAT/4714.P1).	
	C53	United States Patent Application 09/625,336 filed July 25, 2000 (AMAT/4714.D1).	
	C54	RITALA, ET AL. "Surface Roughness Reduction in Atomic Layer Epitaxy Growth of Titanium Dioxide Thin Films," <i>Thin Solid-Films</i> , Vol. 249 No. 2 September 15, 1994, pp. 155-62.	
	C55	RITALA, ET AL. "Atomic Force Microscopy Study of Titanium Dioxide Thin Films Grown by Atomic Layer Epitaxy," <i>Thin Solid Films</i> , Vol. 228, No. 1-2 May 15, 1993, pp. 32-35.	
	C56	RITALA, ET AL. "Growth of Titanium Dioxide Thin Films by Atomic Layer Epitaxy," <i>Thin Solid Films</i> , Vol. 225, No. 1-2 March 25, 1993, p. 288-95.	
	C57	RITALA, ET AL. "Effects of Intermediate Zinc Pulses on Properties on TiN and NbN Films by Atomic Layer Epitaxy," <i>Applied Surface Science</i> , Vol. 120, No. 3-4 December 1997, pp. 199-212.	
	C58	RITALA, ET AL. "Atomic Layer Epitaxy Growth of TiN Thin Films from TiI ₄ and NH ₃ ," <i>Journal Electrochemical Society</i> , Vol. 145, No. 8 August 1998, pp. 2914-20.	
	C59	MARTENSSON, ET AL. "Use of Atomic Layer Epitaxy for Fabrication of Si/TiN/Cu Structures," <i>Journal Vacuum Science and Technology B</i> , Vol. 17, No. 5 September 1999, pp. 2122-2128.	
	C60	Proceedings of the ICEEE 1998 International Interconnect Technology Conference – San Francisco, California, June 1-3, 1998.	

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Application Number

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First Named Inventor

LING CHEN, ET AL.

Group Art Unit

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HWANG, ET AL. "Nanometer-Size α -PbO₂-type TiO₂ in Garnet: A Thermobarometer for Ultrahigh-Pressure Metamorphism," *Science* Vol. 288 April 14, 2000.

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		Number-Kind Code ² (if known)			
	A307	US-4,993,357	02/19/1991	Scholz	
	A308	US-4,975,252	12/04/1990	Nishizawa et al.	
	A309	US-4,960,720	10/02/1990	Shimbo	
	A310	US-4,951,601	08/28/1990	Maydan, et al.	
	A311	US-4,931,132	06/05/1990	Aspnes et al.	
	A312	US-4,927,670	05/22/1990	Erbil	
	A313	US-4,917,556	04/17/1990	Stark et al.	
	A314	US-4,876,218	10/24/1989	Pessa et al.	
	A315	US-4,861,417	08/29/1989	Mochizuki et al.	
	A316	US-4,859,627	08/22/1989	Sunakawa	
	A317	US-4,859,625	08/22/1989	Nishizawa et al.	
	A318	US-4,845,049	07/04/1989	Sunakawa	
	A319	US-4,840,921	06/20/1989	Matsumoto	
	A320	US-4,838,993	06/13/1989	Aoki et al.	
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	A322	US-4,834,831	05/30/1989	Nishizawa et al.	
	A323	US-4,829,022	05/09/1989	Kobayashi et al.	
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	A325	US-4,806,321	02/21/1989	Nishizawa et al.	
	A326	US-4,767,494	08/30/1988	Kobayashi et al.	
	A327	US-4,486,487	12/04/1984	Skarp	
	A328	US-4,413,022	11/01/1983	Suntola et al.	
	A329	US-4,389,973	06/28/1983	Suntola et al.	
	A330	US-4,058,430	11/15/1977	Suntola et al.	

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